



OIPE

## RAW SEQUENCE LISTING

DATE: 05/19/2003

PATENT APPLICATION: US/10/085,418E

TIME: 14:13:37

Input Set : N:\jumbos\10085418\PTOMS.txt

Output Set: N:\CRF4\05192003\J085418E.raw

## SEQUENCE LISTING

## 3 (1) GENERAL INFORMATION:

4 (i) APPLICANT: ZENECA LIMITED ., . .

5 (ii) TITLE OF INVENTION: GENE SILENCING

6 (iii) NUMBER OF SEQUENCES: 3

(iv) CORRESPONDENCE ADDRESS:

7 (A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS

8 (B) STREET: JEALOTTS HILL RESEARCH STATION,

9 (C) CITY: BRACKNELL,

10 (D) STATE: BERKSHIRE

11 (E) COUNTRY: UNITED KINGDOM

12 (F) ZIP: RG42 0ET

13 (v) COMPUTER READABLE FORM:

14 (A) MEDIUM TYPE: Floppy disk

15 (B) COMPUTER: IBM PC compatible

16 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

17 (D) SOFTWARE: Patent In Release #1.0, Version #1.25

18 (vi) CURRENT APPLICATION DATA:

C--&gt; 20 (A) APPLICATION NUMBER: US/10/085,418E

C--&gt; 21 (B) FILING DATE: 28-Feb-2002

22 (C) CLASSIFICATION:

23 (viii) ATTORNEY/AGENT INFORMATION:

24 (A) NAME: Kakeruda, Mary

25 (ix) TELECOMMUNICATION INFORMATION:

26 (A) TELEPHONE: 919-765-5071

## 27 (2) INFORMATION FOR SEQ ID NO: 1:

28 (i) SEQUENCE CHARACTERISTICS:

29 (A) LENGTH: 3661 base pairs

30 (B) TYPE: nucleic acid

31 (C) STRANDEDNESS: double

32 (D) TOPOLOGY: linear

33 (ii) MOLECULAR TYPE: DNA (genomic)

34 (iii) SYNTHETICAL: NO

35 (iv) ANTI-SENSE: NO

36 (vi) ORIGINAL SOURCE:

37 (A) ORGANISM: 1-AMINO CYCLOPROPANE-1-CARBOXYLIC ACID

38 ONIATE

39 (vii) IMMEDIATE SOURCE:

40 (A) CLONE: pTOM1-

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/085,418E

DATE: 05/11/2003

TIME: 14:13:37

Input Set : N:\jumbos\10085418\PTOMS.txt

Output Set: N:\CRF4\05192003\J085418E.raw

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47 TTTAGGAAAA GGTTTTGAAT TGAATATTTT TTTTITGTA GAAAAAATTT TAGGACTCTA 140
48 TAAATAGAGG CATGTTTCCT CTAACCTAAT TAGCATTCAC AATGTAGITT TAAAGGCTTT 180
49 GAGAGTTTTT GTTAGAGCGA GAATTTGPGA ACCTTTCATG TATTCTGAST GAATTGTTT 360
50 AGSTTGTGTT CTTCTGTAAT TTGTACTGTC ATGTTTATAG TGGATTGCTC ATTTCTTTT 420
51 TGGACGTAGG TCGATTGAGC GAACCACTTT AAATTTTTGT GTCCTTTTGT ATATTTCCT 480
52 TTCTTTTATC TCGTGTCTTT TCGAGGTTTG CTTTGCTAGC TTTCTGTTT ACACCTGCTT 540
53 ATTTTCGGTC CTAACAAGTG GTATCAGAGC CAGATTCAAT AATGAGTCA GGTGTAGTGG 600
54 TTCTGATATC GATGATTGAA CCAAGTTAGA AAGAGGTTT CATCTTGAGG GGTGTAGTGG 660
55 TAGGCGCAAC CTTTTPGACA TTAATGAGG TTTTGAAGA GAAATTTTGT CAGAGAGGTT 720
56 CTCTGTGTTG AGACATAAAT TTTSTAAAGG AGATTATGGA GAGGAGAAAC AASTTGTGA 780
57 AGATTAAATA AAGAAGGTTG ACAAATCTAT TTTGTCAGAA ATTCAGGCA AGGAGAGAT 840
58 TTGTTGGGTT TATTTTGGCC TGATTTTTTA CCATAAATAG GTTTTCCTTT AAGGAAAAAG 900
59 TTTTGAATTG ACATATCTTT TTTTGTAGG AAAAGTTTGA GGATTCATA AATAGAGGCA 960
60 TGTTCTTTCT AACTTAATTA GCATTCAGAA TGTATTTTGA AGGCTTTTGA GAGTTTGTGT 1020
61 TAGAGGAGAG ATTTGTGAAC CTCTCATGTA TTCTGAGTGA ATGGTTTGA GGTGTTTCT 1080
62 TCTGTATTTT TACTCTCAT GTTTATAGTG GATTTCTCAT TTCTTTTGT GAGTGAAGT 1140
63 GATTGACCGA ACCACGTAAA ATCTTTGTGT CTTTTGTAT ATTTCTCTTT GTCTTCTTAC 1200
64 TCGTGTCTTT TCGAGGTTTG CTTTGCTAGC TTTGCGTTT ACACCTGCTT ATTTGCGCTC 1260
65 CTAACAGAGT TCGATGGGTT GAATCTATAA AAAGAAAAAT ATACTCGTGA TTCACGATTA 1320
66 TTTATATGAA AATATAATAA ATATTGAATT TCTTTTGTGA TTTCTTATGT TTAGCTCTTT 1380
67 ATATTTCAAA TTATTCCACC AATACGACA AGCCTAGGCG CATCTCTAGG AATTCTATC 1440
68 AATTTTTTTT TTGTTGTTAA CTAGTTAAAT TGGCAGCTTT AAAGATTATT GTAAAAATCA 1500
69 AGGCAACTTC CTCAAGTACT ACAACTAGC CTGAACATCC CACTCAAGT GTCTTAAAT 1560
70 TTTATAAAAT TTGACACATG AAACAATAGC ACAAATAATT TTAGTACTAT TGCAGCCATG 1620
71 GGCATAAAGC CATCATGTA TATACTCAA ATGGTCTCTT TTCAATTTG TCTTATCTC 1680
72 AAAATCTCTT TGTAGGTAAG ATGTTTCAAC AAGGAACTAT GACTCTTAAG GTAGACTTGG 1740
73 ACTCATAAGC TGTCTATAAC TCATAAAGAC TTGGAATATA ATAATTATTC ATTTAAATTA 1800
74 TAATTCTCTA CTTTAATATC TTCTACTATA AATACCTTT CAAAGCTCTA TTATTGTAG 1860
75 ATCAAACATT GATATTCTAT TCTTCAATCT TTTGTATTCA CATATTCTAT TTATTCAATA 1920
76 CACTTAGGAA AACACTTTAC CAAGAAATTA AGATGAGAA CTTCCTAATT ATTAACCTG 1980
77 AAAAGCTCAA TGGAGATGAC ACAGCCAAAC CCATGGAAT GATCAAAGAT GCTTGTGAGA 2040
78 ATTGGGGCTT CTTTGAAGTA ATCATAAAAT ACATAAACAT APTAATATGT TTGTTTCAAT 2100
79 TTATCAGTCA TACTTTCTCT TGTTTTAAAA TTAATGTCAC TTTCAATAAT TAATAATTGG 2160
80 CATGACATGT TTATAACACA ACAAGATATA GGTACATTT TGATACATTA TATATAACT 2220
81 CTGTCACAGC ACTCAAAAGT CTTCTTAAT TTCTTGAAT CATGATCGA TCAAACTAAG 2280
82 ACACGTAAAA TGAAAGGGGG AATAGTAATT CTGTTTGTCT ATGTGATCAT TGTAGTTGGT 2340
83 GAAACATGGA ATTCACATG AACTAATGCA CACAGTAGAG AAAATGACAA AGGACATTA 2400
84 CAAGAAGTGC ATGGAACAGA CTTTAAAGCA ACTAGTGGCA AHAAGGGAT TTGAGGCTGT 2460
85 TCAAGCTGAG CTACTTAAAT TAAATTGAGA AAGCACTTT TCTTCTCTT ATTTCTTAT 2520
86 TTCTAAATAT TCTAAATAT CAACTTTGA CAAATAATAC AATTAATAT ATCTCTTAT 2580
87 CATATGCGGT ATATATATAA TAAACAATA ATTTAAGTTA TATAGCTTA CAATAAAT 2640
88 AATATATATG TTCTAAATAA TAACTTACA AATCTTCTT AATTTTCTT AATAATTAT 2700
89 AGAAATTGGC TGAGGAGTTA CTTGACTTAC TCTGTGAAAA TCTTGGACTT GAAAAAGGTT 2760
90 ACTTGAAAAA TGCTTTTAT GGATCAAAAG GTCCCAACTT TGGTACTAAA GTTAGCAACT 2820
91 ATCACCATG TCTTAAGCCC GATTGTGATCA AGGGACTCCG CGCTCATACA GACGCAGGAG 2880
92 CATCATACT TCTTTTCAA CATGAAAAA TGAGTGTGT TCAACTCTT AAGACGAGG 2940
93 AATGATGCA TCTTAAATAT ATCTTAAAT CTATTCTAT TAACTTTCTT CAATAACTT 3000
94 AGTAAAGG TCACTAAAT TCTCTCTTT TTATCTAT AACTTAGAG TAATAACTA 3060

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/085,418E

DATE: 01/17/2003

TIME: 14:13:17

Input Set : N:\jumbos\10085418\PTOMS.txt

Output Set: N:\CRF4\05192003\J085418E.raw

96 GGTGCACAGG STAATTGAT AAACAGACGG GACACGAATG TCATTAGCCT CATTTTACAA 3180  
 97 TCCAGGAAGT ATGCCATTA TATATCAGC AAAAAGCTTG GTTGAAAAAG AGGCAGAGGA 3240  
 98 AAGTACACAA GTGTATCCAA AGTTTGTGTT TGATGATTAC ATGAAGTTAT ATGCTGGACT 3300  
 99 CAAGTTTCAA GCGAAAGAGC CAAGATTGSA AGCAATGAAG GCAATGGAAA GTGATCCAT 3360  
 100 TGCAASTGCT TAGATCCAA TTCAATTAAA AAAATTGGTG TTTGAAAAAT ATATTTAAAT 3420  
 101 ATAGCAATCT ATGTATACAC ATTATTTGCT CTTCTTATGT ATGGTAGAAT AAAGTTAGTA 3480  
 102 TTAAAAAAGA TTCTGATTTT TGCATATGT ATCAAAAAGA GTCCTAATAT TTGTATCTAT 3540  
 103 AAATAAGGTG CTTCTTAGTG AAATATACA AATAATAATT TGGAGTGTAT TGTTCTTTCT 3600  
 104 CATGTAATTT AATTTTAAG TATTTTCTT TACAATATAC TGTTCACTTA TTGAACATAT 3660  
 105 TGAGTGATAT ATGACTCAA 2 3681

106 (2) INFORMATION FOR SEQ ID NO: 2:

107 (i) SEQUENCE CHARACTERISTICS:

108 (A) LENGTH: 12 base pairs

109 (B) TYPE: nucleic acid

110 (C) STRANDEDNESS: single

111 (D) TOPOLOGY: linear

112 (ii) MOLECULE TYPE: cDNA

113 (vii) IMMEDIATE SOURCE:

114 (b) CLONE: oligo dT-primed cDNA - page 13

115 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

116 CATTCATCTC TTCAATCTTT TG 12

117 (2) INFORMATION FOR SEQ ID NO: 3:

118 (i) SEQUENCE CHARACTERISTICS:

119 (A) LENGTH: 16 base pairs

120 (B) TYPE: nucleic acid

121 (C) STRANDEDNESS: single

122 (D) TOPOLOGY: linear

123 (ii) MOLECULE TYPE: cDNA

124 (vii) IMMEDIATE SOURCE:

125 (b) CLONE: oligo dT-primed cDNA (SEQ3) page 13

126 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

127 CTTAATTTCT TGGTAAAGTG TTTTCC 26

W--&gt; 132 1

*Remove extra material at end of file*

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/085,418E

DATE: 05/14/2003

TIME: 14:19:36

Input Set : N:\jumbos\10085418\PTOMS.txt

Output Set : N:\CRF4\05192003\J085418E.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:132 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3



cas no. 00040  
corrected to state name

OIPE

## RAW SEQUENCE LISTING

DATE: 05/19/2003

PATENT APPLICATION: US/10/085,418E

TIME: 14:09:46

Input Set : N:\jumbos\10085418\PTOMS.txt

Output Set: N:\CRF4\05192003\J085418E.raw

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:  
 4 (i) APPLICANT: ZENECA LIMITED ., . .  
 5 (ii) TITLE OF INVENTION: GENE SILENCING  
 6 (iii) NUMBER OF SEQUENCES: 3  
 7 (iv) CORRESPONDENCE ADDRESS:  
 8 (A) ADDRESSEE: IP DEPT., ZENECA AGROCHEMICALS  
 9 (B) STREET: JEALOTTS HILL RESEARCH STATION,  
 10 (C) CITY: BRACKNELL,  
 11 (D) STATE: BERKSHIRE  
 12 (E) UNITED KINGDOM *include*  
 13 (F) ZIP: RG42 6ET *country*  
 14 (v) COMPUTER READABLE FORM:  
 15 (A) MEDIUM TYPE: Floppy disk  
 16 (B) COMPUTER: IBM PC compatible  
 17 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
 18 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
 19 (vi) CURRENT APPLICATION DATA:  
 C--> 20 (A) APPLICATION NUMBER: US/10/085,418E  
 C--> 21 (B) FILING DATE: 28-Feb-2002  
 22 (C) CLASSIFICATION:  
 23 (viii) ATTORNEY/AGENT INFORMATION:  
 24 (A) NAME: Kakefuda, Mary  
 25 (ix) TELECOMMUNICATION INFORMATION:  
 26 (A) TELEPHONE: 919-765-5071

ERRORED SEQUENCES

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/085,418E

DATE: 05/19/2003

TIME: 14:09:47

Input Set : N:\jumbos\10085418\PTOMS.txt  
Output Set: N:\CRF4\05192003\J085418E.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:0 M:200 E: Mandatory Header Field missing, [(E) COUNTRY:] of (1)(iv)  
L:132 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3